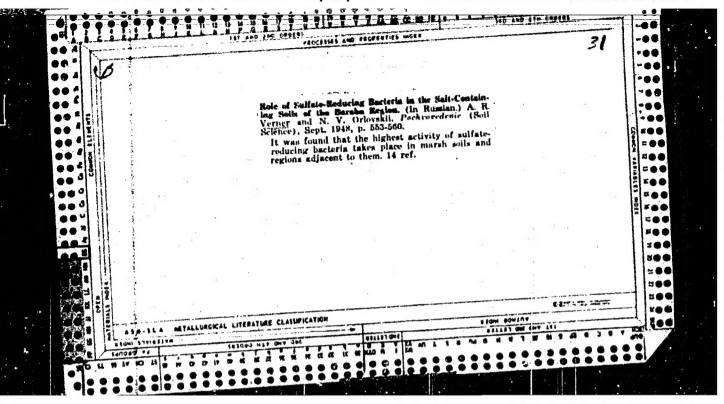


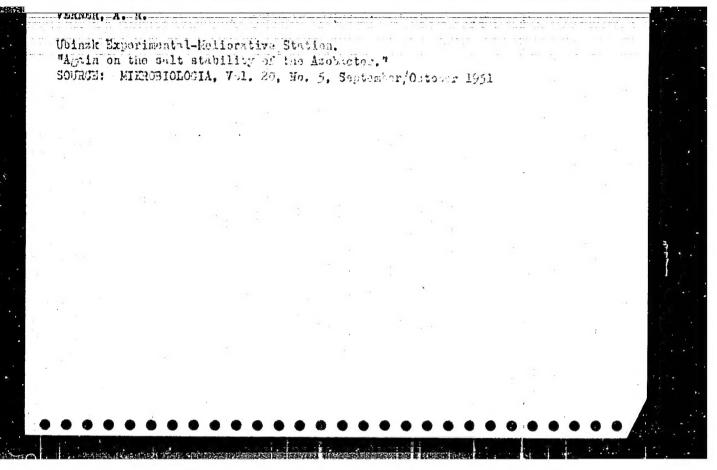
VERIER. A. R.

VERNER, A. R., MALYSHEIN, E. E., and EVIST, H. "Development of Bungi (Fusarium, Verticillium) in the Soil," <u>Comptes Rendus (Boklady) de l'Academie</u> des Sciences de l'URSS, vol. 31, no. 8, 1941, pp. 812-814. 511 P444

SO: SIRA SI-90-53, 15 Dec. 1953



VERNER, A. R.				bv otati							
				prevalence Gives four	ussR/Agriculture	Activity of and surface salifying or changes in sulfate and genic facto	"Pochvoved"	Saline Note	西西	S / 151	
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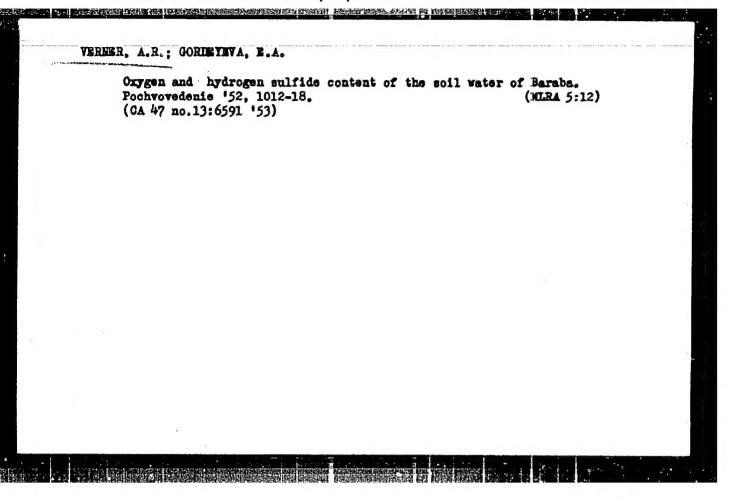


VERNER, A. R.

Reclamation of Land - Baraba Steppe.

Primary working of soil in reclaiming Baraba marshes. Korm. baza, 3, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195/2 Uncl



USSR / Soil Science. Physical and Chemical Properties of Soil.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 6076.

Author : Verner, A. R.; Golyakov, N. M.

Inst : Not given.

Title : The Toxicity of Salts In Reclaimed Bog Soils

of Baraba.

Grig Pub: Pochvovedeniye, 1956, No 8, 101-104.

Abstract: Tentative data on salt concentrations in a soil solution of peat-bog soil is obtained, and the salt composition toxic to oats, barley, wheat and fodder grasses is determined. A concentration of the soil solution (10 grams per liter and higher) leads to a sharp reduction in oat and wheat sprouts. With a salt concentration

Card 1/2

23

VERNER, A.R.

AFANAS'YEVA, A.L., kand.biol.nauk; BAYERTUYEV, A.A., kand.sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk; BELOZUROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystvennykh nauk; MAKSIMENKO, V.P., agronom; EKRNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skckhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel akokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kani.tekhn.nauk; EHRUPPA, I.F., kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh hauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GAIDIN, M.V., inzhenermekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELEHEV, A.V., inzhener-mekhanik; GHRASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozysystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand.tekhn.nauk; PAVIOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KAPLAN. S.M., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozysystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhomyaystvennykh nauk; KOCHERGIN, A. Ye., kand. sel skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand. sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kend.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, M.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'HIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozysystvennykh nauk;

(Continued on next card)

AFANAS YEVA, A.L... (continued) Card 2. HIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; HENASHEV, H.I., lesoved; PERVUSHINA, A.U., sgronom; PLOTHIKOV, M.A., kend, biol.nauk; L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn. nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO, V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykn nauk; PORTYANKO, A.F., agronom; RUCHKIN, V.N., prof.; RUSHKOVSKIY, T.V. agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN, D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand. tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk; SEREBRYAISKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'skokhozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor biol.nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk; YUFEROV, V.A., kend.sel'skokhozysystvennykh nauk; YAKHTEHFEL'D, P.A., kand, sel'skokhozyaystvennykh nauk; SEMEHOVSKIY, A.A., red.; GOR'KOVA, Z.D., tekhn.red.

> [Handbook for Siberian agriculturists] Spravochnaia kniga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p. (Siberia-Agriculture) (MIRA 11:2)

VERHER, A.R. (Omsk)

Effect of cultivation on changes in the seasonal freezing of bog soils of the Baraba Steppe [with summary in English].

Pochvovedenie no.1:112-117 Ja 159. (MIRA 12:2)

(Baraba Steppe—Frozen ground)

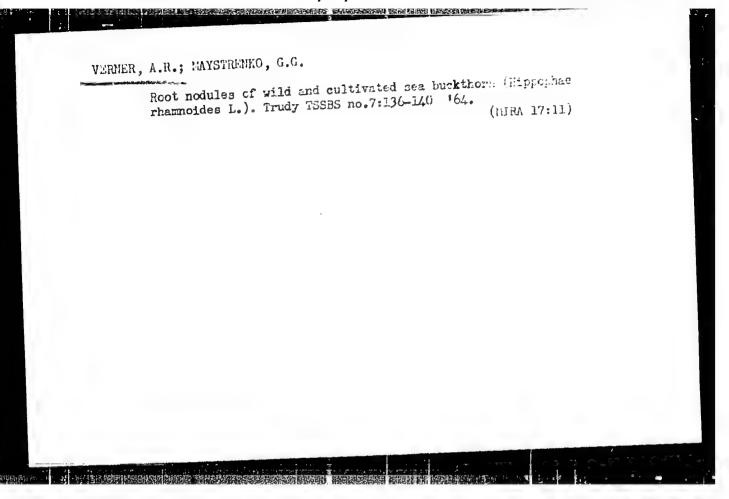
VERNER, A.R.; TRET'YAKOVA, K.Ye.

Conditions of preservation and viability of corn, strawberry, and apple pollen. Trudy TSSBS no.5:89-97 '61. (MIRA 15:3) (Pollen)

VERNER, A.R.; DELOVA, G.V.; GONTAR', E.M.

Phytoncidal activity of certain wild onions of Siberia. Izv. Sib. otd. AN SSSR no.7:83-91 161. (MIRA 14:8)

1. TSentral'nyy Sibirskiy Botanicheskiy sad Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Phytoncides) (Siberia--Onions)



VAYSBURD, S.Ye.; VERNER, B.F.; KHEYFETS, V.L.

Activity of iron in Fe - Ni - S melts. Izv.vys.ucheb.zav.; tsvet.met. 5 no.1:59-67 162. (MIRA 15:2)

1. Proyektnyy i nauchno-issledovatel'skiy institut "Gipronikel'".

(Activity coefficients) (Iron sulfides) (Nickel sulfides)

137-58-6-11981

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 113 (USSR)

Baymakov, A.Yu., Verner, B.F. Kostelov, V.V. AUTHORS.

An Application of the Furning Process (Metallotermiya v prot-TITLE

sesse f'yumingovaniya;

APPROVED FOR RELEASE: 09/01/2001

Byul. tsvetn. metallurgii, 1957, Nr 9, pp 20-21 PERIODICAL

Large quantities of ferrosilicon, a by-product of electro-ABSTRACT smelting of Sn concentrates which contains 18-19% of Si, ~30% of Fe, and 3-5% of Sn, have accumulated in various tin-producing plants. In 1956 the Gipromnikel' Institute conducted shop experiments on processing of ferrosilicon by means of fuming of Sn slags containing 1.3-1.5% Sn, 0.5-0.8% Pb, and 2.5-3.5% Zn. After blowing, 0.07-0.08% of Sn remain in the slag, the extraction of Sn attaining 95%. Addition of ferrosilicon is advisable in amounts equivalent to 15% of slag by weight. Experiments dealing with blowing of the ferrosilicon only were also

> performed. A.P.

. 1. Slags--Processing 2. Iron-silicon alloys--Processing Card 1/1 3. Tin-Separation

CIA-RDP86-00513R001859520002-9"

BAYMAKOV, A.Yu.; VERNER, B.F.: LARIKOVA, M.G.; DMITRIYEVA, N.K.

Refining tin from admixtures by the method of sonal smalting.

TSvet. met. 29 no.8:51-58 Ag '56. (MLRA 9:10)

(Tin--Metallurgy)

Reprocessing of slags containing sinc, lead, tin and cepper. TSvet.
met. 29 no.1:82-92 Ja '56.
(Slag) (Honforrous metals--Metallurgy)

BAZILEVSKIY, V.M.; VERNER, B.F.; KOSTEIOV, V.V.

Reprocessing of slags containing zinc, lead, tim and copper. TSvet.
met. 29 no. 1:82-9 Ja '56.
(Slag) (Honferrous metals--Metallurgy)

KOSTELOV, V.V.; VERNER, B.F.; IVANCHENKO, L.P.

Use of the fuming process for the treatment of complex cobaltcontaining raw materials. TSvet. met. 33 no.6:37-42 Je '60. (MIRA 14:4) (Nonferrous metals-Metallurgy) (Cobalt)

BILAY, V.I.; VERNER, D.A.; ZAKORDONETS, A.I.; LUSHCHEVSKAYA, G.M.

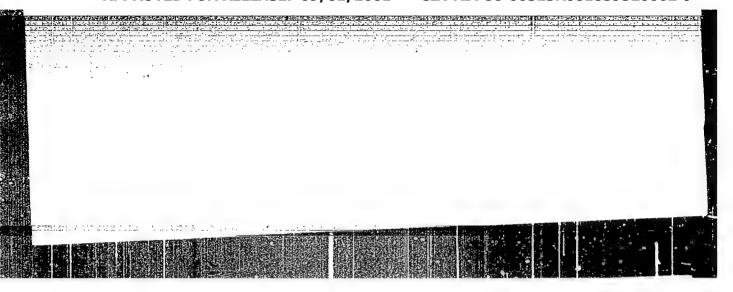
A stimulant of plant growth isolated from Fusarium miliforme Sheld. Izv. AN SSSR. Ser. biol. 27 no.1:42-47 Ja-F '62. (MIRA 15:3)

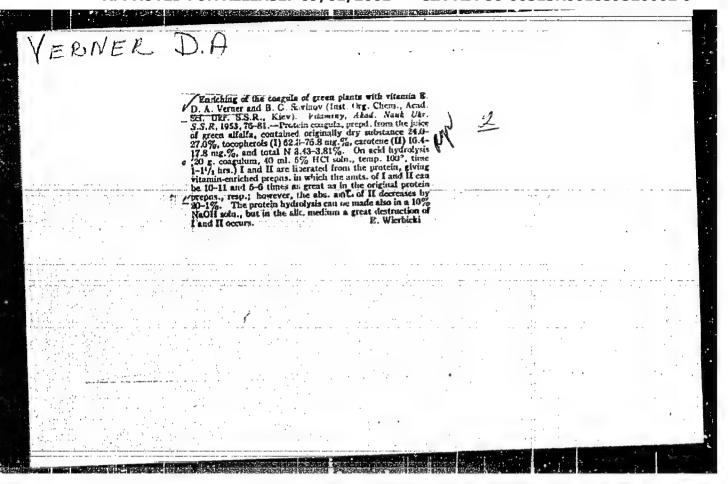
1. Akademiya nauk Ukrainskoy SSR, Kiyev.
(FUSARIUM)
(GROWTH PROMOTING SUBSTANCES)

VERIER, D. A.
Sulfurization of fruits and berries Moskva, Pishchepromizdat, 19/11. 40 p.

Verner, D. A. "The use of pectinase preparations in separating out Verner, D. A. "The use of pectinase preparations in separating out chromoplast pigments", Ukr. khim. zhurnal, Vol. XIV, Issus 2, 1949, p. 101-106, - Bibliog: 9 items.

S0: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).





VERNER, D.A. USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 842 Author: Savinov, B. G., Verner, D. A., and Mikaylovnina, A. A.

Institution: None

Title: On the Monomethylation of Xylene

Original Periodical: Ukr. khim. zh., 1956, Vol 22, No 1, 84-87

Abstract:

The conditions for the preparation of pseudocumene (I) from xylene (II) have been investigated. The methylation of II. with CH3Cl for 12-25 hours in the presence of anhydrous Al2Cl3 at 800 gives I in yields of 30-38% (based on II charged).

The separate methylation of the isomers of II produces no advantage compared to the methylation of the mixture; I and mesitylene are formed in both cases. Mesitylene and II are obtained by the hydrolysis with 20% HCl (30 minutes) followed by steam-distillation for 00 minutes at 20 000 co the cut followed by steam-distillation for 90 minutes at 80-900, of the sulfonic acids formed when the fraction of alkylated products boiling Ionic acids formed when the fraction of alkylated products bolling at 150-1800 is sulfonated with an equal volume of concentrated H2SOH

Card 2

Card 1/2

USSR/Human and Animal Physiology - Blood Circulation.

T-5

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 31731

Author

: Verner D.D.

Inst

Title

Pneumatophotoelectric Plethysmograph.

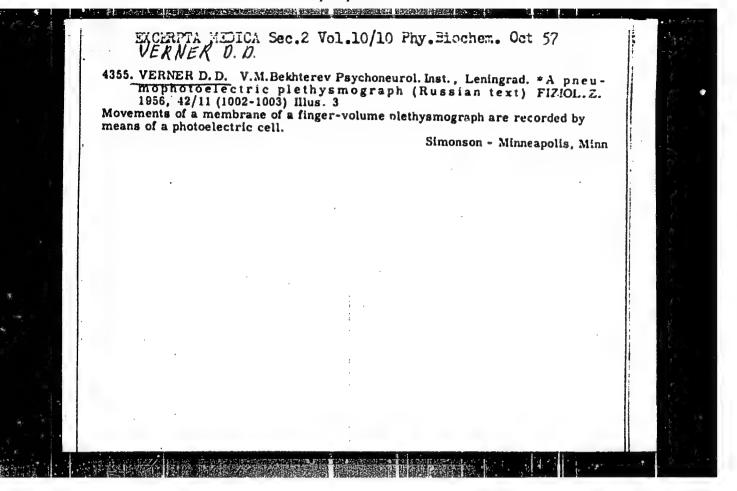
Orig Pub

: Fiziol. zh. SSSR, 1956, 42, No 11, 1002-1003.

Abstract

: Sealed with plastilin or plaster a test tube is slipped on the digits of the hand of foot. The end of the test tube extends out and, by means of a rubber tube, connects with a capsule of the transmitter that has a rubber menbrane. Changes of the size of the digit in the test tube are transfered to themembrane and, from it, to an operation indicator that regulates the quantity of light falling on photoelement. Changes of the photocurrent are amplified and recorded on an oscillograph in ink.

Card 1/1



VERNER, D.D.

Pneumophotoelectric plethysnograph [with summary in English].
Fiziol.shur. 42 no.11:1002-1003 N *56. (MIRA 10:1)

1. Gosudarstvennyy psikhonevrologicheskiy institut im. V.M. Bekhtereva, Leningrad.

(PLETHYSMOGRAPHY, apparatus and instruments, pneumophotoclectric plathysmograph (Rus))

YEROKHINA, V.N.; VERNER, D.D.

Potentiation of hypnic inhibition by means of a small-sized simplified apparatus for electronarcosis. Trudy Gos. nauch.-issl, psikhonevr. inst. no.24:167-172 '61. (MIRA 15:5)

1. 2-oy psikhiatricheskoye otdeleniye i eksperimental'naya gruppa po razrabotke meditsinskogo oborudovaniya Gosudarstvennogo nauchnoissledovatel'skogo psikhonevrologicheskogo instituta imeni Bekhtereva. (ELECTRIC ANESTHESIA)

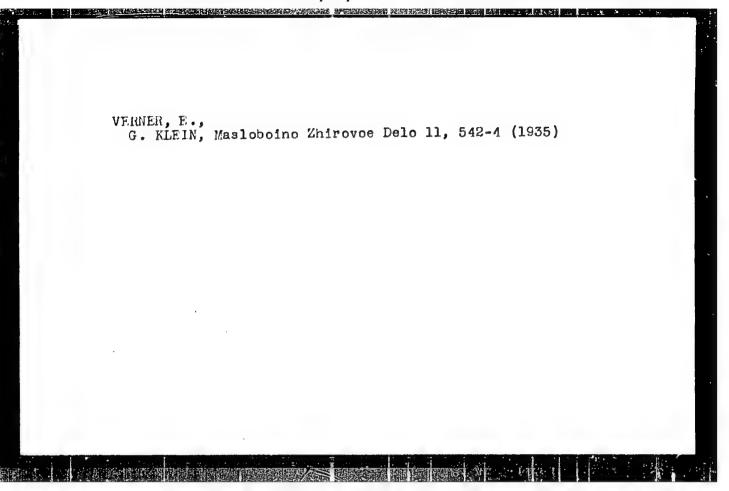
VERNER, E. (Eng.)

Wrote about the repair of automobile and tractor engine bearing with centrifugally poured babbit and the relation between the thickness and microstructure, and the r.p.m. at which the babbit is poured.

Soviet Source: P: Avtomobil, No. 3, Moskva, March 1950

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 98609





VERNER, E.D., inzh.

Cooling systems for the engine, pressure charged air, and electric machines of modernized TE1 and TE2 diesel locomotives. Sbor. nauch. st. KHIIT no.63:27-41 (62. (MIRA 16:11)

VERNER, Sugenii Georgievich

SAKHAROV, Grigorii Manas'evich and Virler, Evenii Georgievich Tordi-niki SSCR; s priloch, kert respolozheniis tord' mikov i teket'l'avzh febrik ... Maskva, Ivstorf, 1928. xx, 320 p.

DIC: Uncless.

SO: IC, Soviet Geography, Part I, 1951, Uncl.

QUL CHAK, G.S.: VERNER B.Q.: SYRKIN, G.Ye.; BUKHARIN, V.V., spetsred.; MURASHEVA, O.I., red.; KISINA, Ye.I., tekhn.red.

[Automatic control devices in the oils and fats industry] Avtomaticheskie reguliruiushchie pribery v maslozhirovoi promyshlennosti. Moskva. Pishchepromizdat. Pt.2. 1957. 31 p. (MIRA 12:1)
(Automatic control) (Oil industries--Equipment and supplies)

YERMAKOV, B.F., inzh.; RABOTA, A.P., inzh.; VERNER, E.O., inzh.

From the work experience of Vinnitsa Oil and Pat Combine. Masl.-shir.prom. 28 no.12:27-28 D *62. (MIRA 16:1)

1. Vinnitskiy maslozhirovoy kombinat.
(Hydrogenation oils and fats) (Vinnitsa)

RUDAKOV, A.A.; VERHER, E.O.: IVANOV, M.Ye.; FURMANOV, Z.Z.

Automatic regulation of temperature in thermosteting control

Automatic regulation of temperature in thermostating canned foods. Kons, 1 ov. prom. 15 no.11:35-38 N '60. (MHRA 13:10)

1. Vinnitskiy sovnarkhos. (Canning industry Equipment and supplies) (Thermostat)

VERNER, E.O., inzh.

Remote indicator of the amount of hydrogen in a gas feller and automatic switching off of hydrogen compressors. Hasl. -rhir. pros. 27 no.7:42-43 Jl '61. (HIWA 14:7)

1. Vinnitshiy raslombirovoy kombinat.
(Gasses, Compressed)
(Automatic control)

VERNER, G. [Werner, G.], insh.

The ADE automatic two-side trimmer. Der.prom. 11 no.12:30 D '62. (MIRA 16:1)

1. Institut stankostroyeniya, Karl-Marks-shtadt, Germanskaya Demokratisheskaya Respublika. (Germany, East-Woodworking machinery)

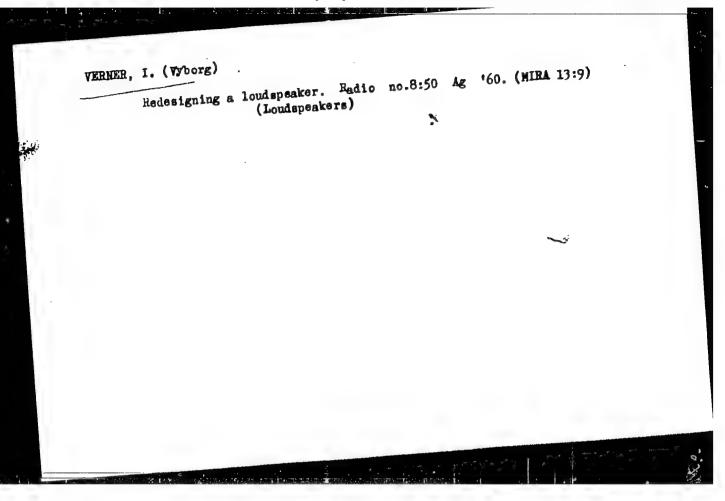
VERNER, G., inshener.

Nodernization of circular saws. Der.prom. 6 no.1:30-31 Ja '57.

(MLRA 10:2)

1. Harodnoye predpriyatiye Mikhowa v gorode Leyptsige (Germanskaya Demokraticheskaya Raspublika).

(Germany, Hast-Woodworking machinery)



VERNER, J.

"Air in the Ostrava area."

p. 241 (Nova Technika, No. 6, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

CIA-RDP86-00513R001859520002-9 "APPROVED FOR RELEASE: 09/01/2001

SOV/113-59-6-18/21

12(2)

Pryadilov, V.I., Verner, K.A. AUTHOR:

TITLE:

Exhaust Valves of Modern Engines

PERIODICAL:

Avtomobil'naya promyshlennost', 1959, Nr 6, pp 43-

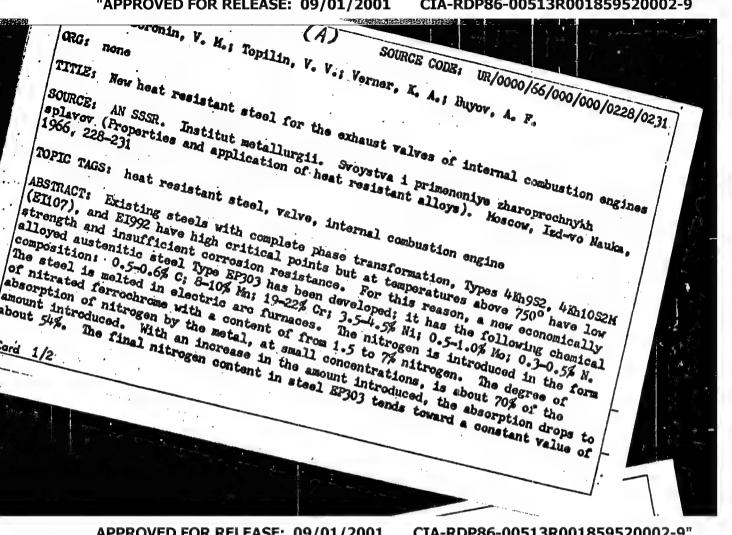
46 (USSR)

ABSTRACT:

This article reviews modern exhaust valves, their design, the materials used in their construction, the stresses to which they are exposed and means to combat them. There are 5 diagrams, 4 graphs, 5 tables and 8 English-language references.

Card 1/1

CIA-RDP86-00513R001859520002-9" APPROVED FOR RELEASE: 09/01/2001



EWT(d)/EWT(1)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1)SOURCE CODE: UR/0113/66/000/003/0031/0033 L 40826-66 WW / SUPAB ACC NR. AP6020976 AUTHOR: Verner, K. A.; Doronin, V. M.; Buynov, A. F.; Syrkin, P. E.; Letchford, N. I. ORG: NAMI; "Elektrodetal!" Plant (Zavod "Elektrodetal!"); Gor'kiy Automobile Plant (Gor'kovskiy avtozavod) with nitrogen for internal combustion exhaust TITLE: Chrome-manganese-nickel steel 75 valves An . B SOURCE: Avtomobil'naya promyshlennost', no. 3, 1966, 31-33 TOPIC TAGS: internal combustion engine, valve, high temperature steel, chromium, manganese, nickel, hardness, durability, engine reliability, CARC mium STEEL,
manganese, nickel, hardness, durability, engine reliability, CARC mium STEEL,
manganese, nickel, hardness, durability, engine reliability, CARC mium STEEL,
MICKEL STEEL / EP303 HICH TEMPERATURE STEEL
ABSTRACT: The authors discuss and criticize various grades of steel used for valve production. A comparison of existing grades of steel for valve production shows that EP303 steel is best suited for this purpose. It retains its hardness at temperatures of 700-900°C. This shows that it can withstand temperatures from 50 to 100 degrees higher than EI69 and EP48 steels. EP303 steel was tested for thermal stability to determine its resistance to scale formation in air and corrosion resistance in lead. oxide at 900°C. EP303 steel compares favorably with the other grades of steel tested. The test results were used as a basis for trying out this steel in the mass production of valves. The manufacturing process is discussed. Valves made from EP303 and EP48 621.431.73:62-332.002.2 Cord 1/2

L 40826-66 ACC NR: AP6020976

steels were then compared on test stands and under operating conditions. These tests were carried out at the Gor'kiy Automobile Plant. The valves were tested in GAZ-51, GAZ-51a and GAZ-21d engines and others. High octane gasoline was used throughout the test since it develops high temperature conditions. Tests showed that valves made from EP303 steel retain their clearances throughout the test period in contrast to those made from EP48 steel. The data acquired during stand testing are in agreement with operational data. Valves made from EP303 steel have a hardness of HRC 38. These valves operate very well in GAZ engines and improve engine reliability of the service life of the new valves is triple that of valves with a built up VKhN-1 facing, and more than four times that of valves made from EP48 steel. The production of EP303 steel has been adopted by the Gor'kiy Automobile Plant for making the exhaust valves of GAZ and ZMZ engines. Orig. art. has: 4 figures, 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 001

Card 2/2/MLP

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859520002

"APPROVED FOR RELEASE: 09/01/2001	CIA-RDP86-00513R001859520002-9
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I. 43942-66 EWT(d)/EWA V. V.; Verner.	antific Research Automobile Gorky Automobile
L 43942-66 EWT(d)/EWT(m)/T/EWP(f)/EWP(L)/SOURCE CO- SOURCE CO AUTHOR: Doronin, V. M.; Topilin, V. V.; Verner, J. AUTHOR: Doronin, V. M.; Topilin, V. V.; Verner, J. ORG: Elektrostal' Plant (Zavod Elektrostal'); Source	1-combustion engines
TITLE: New steel for exhaust Title: New steel for exhaust Stal', no. 8, 1966, 742-745 Stal', no. 8, 1966, 742-745	containing steel, nitroh 14 (0.50-0.60% C, The steel The
TOPIC TAGS: chromium in exhaust value of the steel, exhaust value of the steel	kh20N4A07 N) has been carbonittle an RC 30, 30, 0.3—0.5% N) has been at 770C, has an RC 30, the precipitation of carbonittle was 50, 30, the precipitation of tensile strength the steel
TOPIC TAGS: cnive steel, example austenitic steel, austenitic steel, example austenitic steel, austenitic steel, austenitic strengthened by 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and by 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and by 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and 8.0-10.0% Strengthened by 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and by 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and strengthened by 8.0-10.0% Mn/19-23% Cr/3.5-4.5% Ni/and by 8.0-10.0% Ni/a	the respective to the respective the respective to the steel is lower than that of other of the steel is lower pb02, and 7b0. FbBr2 at of the steel is pb0, pb02, and 7b0. FbBr2 at gases containing pb0, 5080 g/m². hr for gases compared to 5080 g/m². hr for unc: 669.14.018.8
8.0-10.02 Miles and sustenitic and s	WDC: 669.14.018.8
850-950C 12.	

E169 stecl. In tests of dimension stability, the EP303 valve grew by 0.16 mm in 215 hr compared to 0.7 mm for EP48 steel. Under operational conditions, the EP303 and 2 tables. [WW]						the EP303 figures
SUB CODE: 191	SUBM DATE:	none/	ORIG REF:	004/ OTH REF:	004/ ATD 1	ress:506/
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Card 1/1 1b	UDC: 669.14:621.431.73-332
SUB CODE: 21, 11, 13	
ABSTRACT: EP303 low-alloy chrome-manganese-nicked for the exhaust valves in internal combustion engate 500°C. Heat treatment conditions have been we properties in EP303 steel at high temperatures. From heat treatment of the valves obviates the new corresponding to the ends of the valve rods. Expical properties during steel production and manuvalves made from EP303 steel ensure reliable engineed where the engineer deformation of the valve plates and an increation of 2 compared with EP48 steel valves. The "E"bugs" out of the production of EP303 steel through the gorky Automatical Steel has been introduced by the Gorky Automatical Steel and EP303 steel has been introduced by the Gorky Automatical Steel Steel and EP303 steel through the Gorky Automatical Steel and EP303 steel at International Steel and EP303 steel and EP30	The hardness (HRC up to 38) resulting excessity for using hard metal surfacing. P303 steel has satisfactory technologicaturing of the valves. Exhaust ne performance, a stable heat gap, ease in their service life by a factlektrostal. Plant has worked all ghout the entire metallurgical cycle.
TOPIC TAGS: engine exhaust system, high temperatengine, low alloy steel, austenite steel	ture valve, internal combustion
REF SOURCE: Tr. Tsentr. ni. avtomob. i avtomot	torn. in-ta, vyp. 81, 1966, 66-68
SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya	
TITIE: Austenite steel with low nickel concentraternal combustion engines operating at temperature	res up to 900°C
AUTHOR: Verner, K. A.; Buynov, A. F.; Doronin,	
# 11190-07 EVT(d)/EVT(m)/EWP(k)/EWP(h)/EVP(f)/F ACC NR AR6030391 SOURCE CO	WP(V)/EWP(1) FDN/DJ DE: UR/0273/66/000/006/0028/0028

ACC NRIAP7006946

SOURCE CODE: UR/0129/67/000/001/0046/0048

AUTHOR: Verner, K. A.; Zelenova, V. D.; Doronin, V. M.; Buynov, A. F.

ORG: NAMI; GAZ; "Elektrostal" Factory (Zavod "Elektrostal")

TITLE: The effect of phosphorus on the structure and properties of 5Kh20N4AG9 steel

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 1, 1967

TOPIC TAGS: austenitic steel, precipitation hardenable steel, phosphore, containing steel, chromium, containing steel, manganese, containing steel, molybdenum, containing steel, nickel, containing steel, phosphore, phosphore, the steel, nitrogen, stell property, 5Kh20N4AG9 steel

ABSTRACT: The effect of phosphorus on the mechanical properties, structure, phase composition, and dispersion strengthening of austenitic 5kh20N4AG9 steel (0.51-0.60%C, 0.36-0.86%S1, 8.61-8.95%Mm, 20.2-21.2%Cr, 3.95-5%Ni, 0.68-0.73%Mo, 0.24-0.36%N, 0.016-0.42%P), used for engine exhaust valves, has been investigated. Ingots were forged at 1160-950°C

Card 1/2

UDC: 669,14.018.8:620.17:620.18

ACC NRIAP7006946

rolled to bars 20-25mm in diameter, and made into valves which were austenitized at 1150-1200°C, quenched, and aged at 700-800°C. Alloyat properties ing 5Kh20N4AG9 steel with phosphorus increased the mechanical properties with 0.16%P and 0.72%Mo (Mo added up to 1% retards grain growth which is increased by P) has, respectively, a tensile strength of 133, and 44 kg/mm², an elongation of 6 and 10%, a reduction of area of 10 and 18%, and 124 compared to 103 and 34 kg/mm², and a Brinell hardness of 393 termined notch toughness, and an HB hardness of 302 and 109, at 20 and 20°C respectively, for 5kh20N4AG9 steel containing 0.04%P. Steel containing 0.2%P and up to 1% Mo had the best combination of mechanical quenching, the phosphorus, disolved in austenite, increases the lattice parameter, brings about strain and stress in the lattice, and increases (Cr2N), but P itself remains in the solid solution. Orig. art. has: 1

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 00/

[WW]

Card 2/2

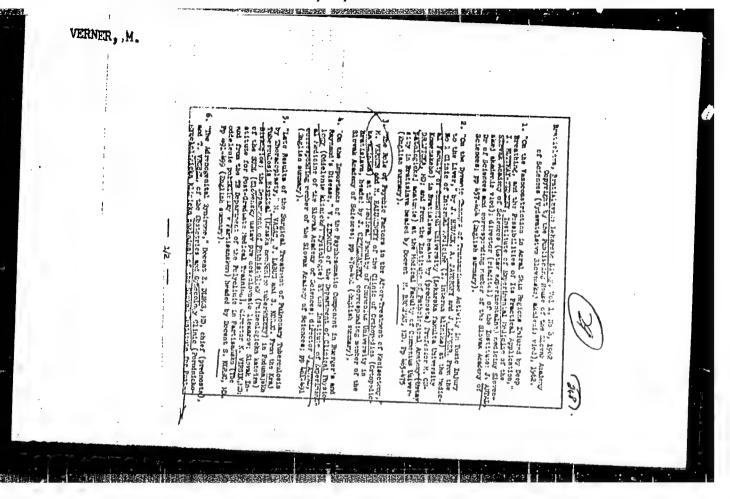
VERBUR, M. Psychical experiences of injured patients. Bratisl. lek. listy 34 no.9:1065-1075 Sept 54. 1. Z Ortopedickej kliniky LFSU v Bratislave, prednosta prof. dr J.Cervenansky. (PATIMETS, psychol. state of hospitalized patients)

VERNER, M.; HALUZICKY, M.

Role of mental factors in supplementary cure following meniscectomy. Bratisl. lek. listy 42 no.8:476-481 *62.

1. Z Ortopedickej kliniky Lek. fak. Univ. Komenskeho v Bratislave, prednosta clen koresp. SAV J. Cervenansky.

(KNEE surg) (POSTOPERATIVE CARE)



VERNER, M.

Czechoslovakia

Institute of Poliomyelitis -- Bratislava (Liečební ústav poliomyelitída -- Bratislava); Director: V. LÁNIK, MUDr.

Bratislava, Bratislavské lekárske listy, No 6, 1962, pp 348-351

"Psychic Repercussions of Post-Polionyelitis States in School Age Children. Preliminary Report."

VERNER, M.; SPISSAK, L.

D sorders of sociability in physically defective pubescent youths during institutional care. Bratisl. lek. listy 45 no.2197-102 31 Ja *65

THE PERSON OF TH

l. I. detska klinika lek. fak. Univerzity Komenskeho v Bratislave (veduca prof. MUDr. I.Jakubcova) a Detsky ustav pre telesne chyhnych v Bratislava (veduci primar MUDr. L. Spissak).

VERNER, M.; BIRCAK, J.; STEINER, J.

Some psychological problems of adolescents. Cesk. pediat. 17 no.7/8: 638-641 Ag 162.

1. I. detska klinika Lekarskej fakulty Univerzity Komenskeho v Bratislave, prednosta doc. dr. I. Jakubcova.

(ADOLESCENCE) (CHILD PSYCHOLCGY)

AEIM, I.Ye.; RUGHEA, N.A.; VERNER, M.A.; LOTKOVA, L.I.

Production of highly refined woodpulp for processing to acetyl-cellulose. Trudy LTITSBP no.12:167-172 *44. (MERA 18:8)

VERNER, M.A., inzh.

Controlling the condition of steampipe metal at electric power stations. Bezop.truda v pron. 5 no.10:24-26 0 '61.

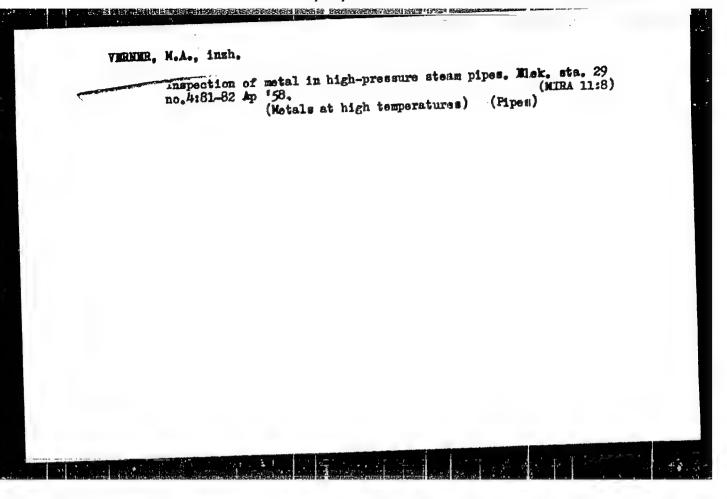
(i:RA 14:10)

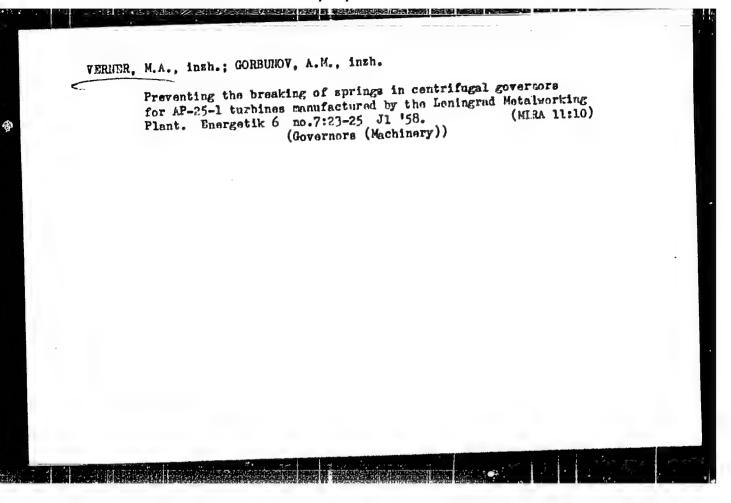
(Steampire--Testing)

VERNER, M.A., inzh.; AKSELTROD, M.A., inzh.

Study of the work cape ity of the output block of a convectional steam superheater. To ploenergetikh 12 no.2:52-55 F 165.

l. Ural'skoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey.





VERNER, MA.

91-58-7-10/27

AUTHORS:

Verner, E.A., and Gorbunov, A.M., Engineers

TITLE:

Exchange of Experience (Obmen opytom). The Elimination of Spring Breaks of the Centrifugal Regulator of the "AP-25-1 LMZ" Type Turbine (Ustraneniye polomok pruzhin tsentrobezh-

nogo regulyatora turbiny AP-25-1 LMZ).

PERIODICAL:

Energetik, 1958, Nr 7, pp 23-25 (USSR).

ABSTRACT:

The article describes the causes of spring breakage of the above regulator and gives the results of laboratory research. The top of the fatigue destruction zone seemed to be the origin of cracks. Pulsations of 2 to 3 mm amplitude were stated in the levers of the regulator, from where they were transmitted to the springs. Some measures taken to eliminate these pulsations, lowering them to 1 mm. Later it was stated, that the vibrations of the regulator were influenced by the operation of the worm gear between the turbine axle and the regulator shaft. The side-gap in the worm gear was about 1.3 mm. It did not influence the operation of the worm gear, but it caused periodical pulsations in the regulator shaft and in the levers and springs. After having carefully adjusted the new worm gear and centered the shaft of the regulator with that of the oil pump, the pulsations completely disappeared and spring breakage was stop-

Card 1/2

91-58-7-10/27

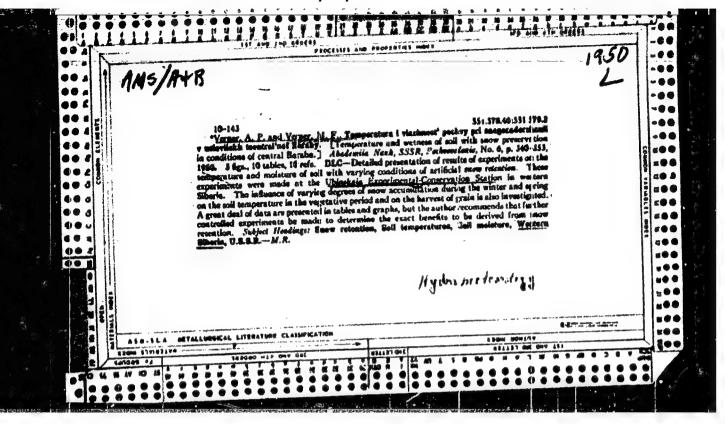
Exchange of Experience. The Elimination of Spring Breeds of the Centrifugal Regulator of the "AP-25-1 LMZ" Type Turbine.

ped. This resulted from research. The permissible value of the side-gap in the worm gear must not exceed 0.5 to 0.6 mm. The recommendations of the "LMZ" for replacing the 4-mesh worm gear by a 3-mesh one to increase its strength are not justified. According to the experience of the author, a 4-mesh worm gear is sufficiently reliable if carefully adjusted. There is 1 diagram and 1 photo.

1. Springs--Failure 2. Turbine regulators--Maintenance

Card 2/2

VERNER, M.A. Increasing the efficiency of high-frequency-current units. Stan.i instr. vol. (MURA 6:10) (Blectric transformers)



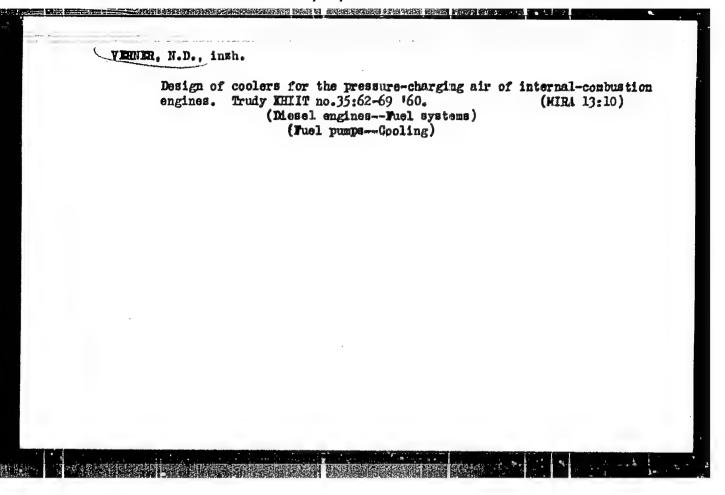
KURITS, A., kand.tekhn.nauk; VERNER, N., inzh.; SIMSON, A., kand.tekhn.nauk

Modernization of diesel locomotive engines. Zhel.dor.transp. 36 no.3:51-53 Mr *55. (MIRA 12:5) (Diesel locomotives)

VERNER, E.; SIMSOH, A.

3 D 50 marine engines of higher capacity. Mor. i rech.flot 14 no.10:23-25 0 154. (MLRA 7:11)

(Marine engines)



VERNER, N. D.

High-sensitivity protection friction clutch. Mashinostroenic no.5:114 S-0 '62. (MIRA 16:1)

(Clutches(Machinery))

VERNER, V.D.

Internal friction produced by the diffusion of nitrogen atoms, 880-889 in A Meld of elastic stresses in 7-soled solutions of iron alloys. Fiz.met.i metalloyed. 14 no.61880-889 D 162- (MIRA 1612)

1. Moskovskiy institut stali i splavov.
(Iron alloys—Thermal properties)
(Internal friction)

CHIRKIN, A. P., doktor tekhn. nauk, prof.; GAVRILENKO, M. K., kand. tekhn. nauk; VERHER, N. D., inzh.

Investigating the characteristics of fuel feed by the fuel pump of the 2D100 engine with modified cutting-off edges of the pump piston. Trudy KHIIT no.52:5-15 '61. (MIRA 15:10)

(Diesel engines—Fuel systems)
(Pistons—Testing)

VERNER, N.D.

Improving the performance of D50 and D100 diesel engines under idling and small load conditions. Trudy KHIIT no.46:133-140 (MIRA 15:12)

1. Rukovoditel' raschetno-konstruktorskoy gruppy laboratorii teplovoznykh dvigateley Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta.

(Diesel locomotives---Performance)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859520002-9

S/262/62/000/014/012/016 1007/1207

AUTHORS:

Vodolazhchenko, V. V., Simson, A. E. and Verner, N. D.

TITLE:

Investigations on the gas-turbine supercharging system in four-strokes engines

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 14, 1962, 54, abstract

42.14.323 (Tr. Khar'kovsk. in-ta inzh. zg.-d. transp., no. 43, 1961, 29-38)

TEXT: Results are reported of investigations on exhaust systems with a single, common exhaust-manifold and with supercharging by means of the kinetic energy of exhaust gases. The system described was used in 2- and 4- stroke engines and ensures increase in turbine power by 20% as compared with reaction turbines; it may be applied to all types of internal combustion engines and requires the installation of a single turbine only regardless the cylinder number and dimension of the engines involved.

[Abstracter's note: Complete translation.]

Card 1/1

ZASLAVSKIY, G.N., inzh.; VERNER, N.D., inzh.

Trioreasing the economic efficiency of the D5C engines. Mashinostroenie (MIRA 15:4)

no.2184-85 Mr-Ap *62.

1. Khar*kovskiy institut inzhenerov zheleznodorozhnogo transporta.

(Diesel engines)

VERNER, N.D., inzh.; TARASOV, A.M., kand.tekhn.nauk

Investigating the causes of the destruction of pins fastening, the D50 engine to the foundation frame. Trudy KHIIT no.5015-13 (MIRA 15:12)

161. (Diesel engines)

CHIRKIN, A.P., doktor tekhn.nauk, prof., VEHNER, N.D., inzh.; GAVRILENKO, N.K., inzh.; DROBYAZKO, S.I., kand.tekhn.nauk, dotsent

By-pass system for the pressure-charging air of 2D100 locomotive diesel engines. Trudy KHIIT no.35:138-143 160. (MIRA 13:10) (Diesel engines)

VERNER, O.

TECHNOLOGY

Periodical: SDELOVACI TECHNIKA. Vol. 6, no. 11, Nov. 1958.

VERNER, O.; PRAGR, J. A precise electric-bridge torque mater. p. 129.

Monthly List of East European Accession (EEAI) IC, Vol. 8, no. 3 Harch 1959 Unclass.

PETROVSKIY, V.V., kand.tekhn.nauk; VASANOVA, L.I., insh.; VERME,

P.F., insh.

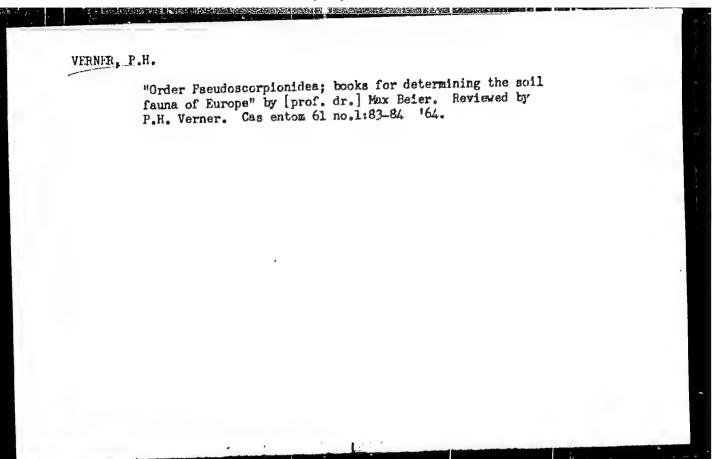
Use of jalousie ash traps in the fuel bed burning of high ash content coal. Elek.sta. 31 no.5:79-81 (MIRA 13:8)

Wy 160. (Ash disposal) (Furnaces)

VERNER, Petr H.; PULPAN, Jan

Hard cheese mites. Prum potravin 16 no.4:202-204. Ap 65.

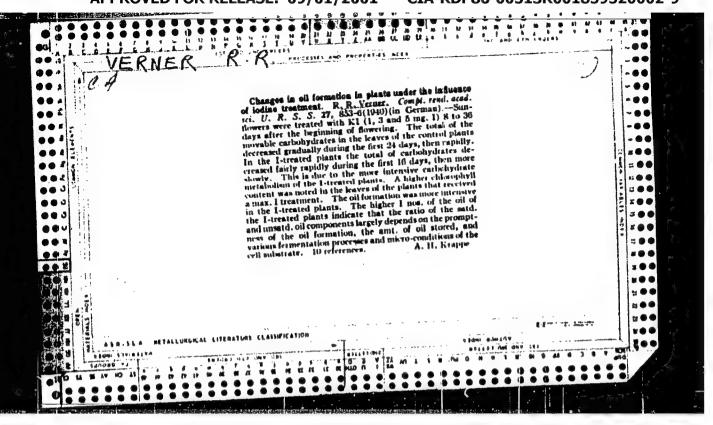
1. Central Research Institute of the Food Industry, Prague.
Submitted August 22, 1964.



PULPAN, Jan (Praha 2, Vinicna 7); HURKA, Karel, dr. (Praha, Vinicna 7); VERNER, Petr H., dr. (Praha 2, Vinicna 7)

Three ground-beetle species, new in Czechoslovakia:
Nebria fuscipes Fuss, Deltomerus carpathicus (Mill.)
and Amara pseudostremus Kult. (Coleoptera). Cas entem
59 no.2:124-130 162.

1. Tschechoslowskische Entomologische Gesellschaft und Lehrstuhl für Systematische Zoologie der Karls-Universität, Praha.



VERNER, S. - Strojirenstvi - Vol. 5, no. 2, Feb. 1955.

Determining the optimal degree in a type series. p. 140.

50: Monthly list of East European Accessions, (ZEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

VERNER, S.

Tolerances for finishing castings. p.125. (Normalisace, Vol. 6, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

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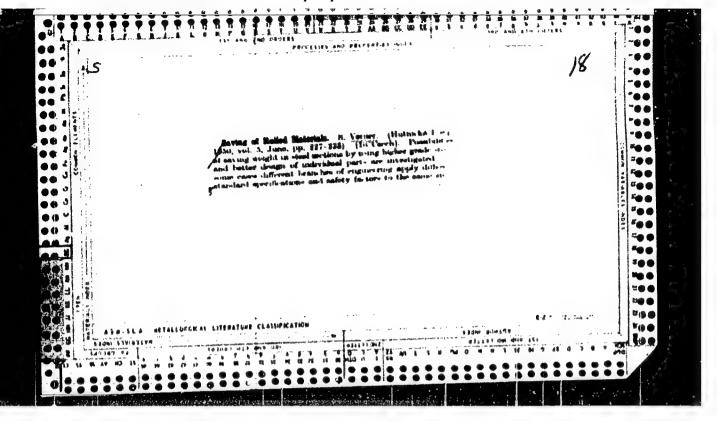
Reduction of overhead costs by standardization and consistent preparation of production, p. 16h, STROJIRENSKA VYROBA (Ministerstvo strojirenstvi) Praha, Vol. 3, No. 4, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

VERNER, S.

"Application of Established Standards and Criteria for Estimating Preparedness of Productions", P. 628, (STROJIRENSTVI, Vol. L, No. 8, Aug. 1954, Praha, Czechoslovakia)

80: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.



VERNER, T.B.; GOROBINCHERKO, V.M., inzh., nauchn.-tekhn.red.; BERMANT, A.I., ved.red.

[Continuous mills of hot and cold rolling; a bibliography] Neprezyvnye stany goriachei i kholodnoi prokatki; bibliograficheskii ukazatel'. Moskva, TsIINChM, 1963. 114 p. (MIRA 17:8)

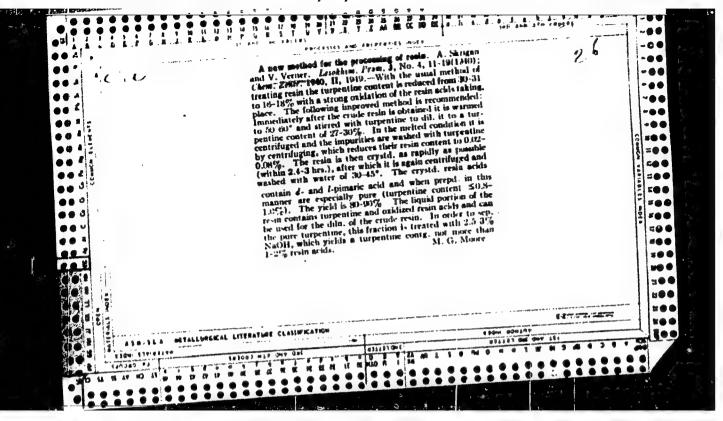
1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka chernoy metallurgii.

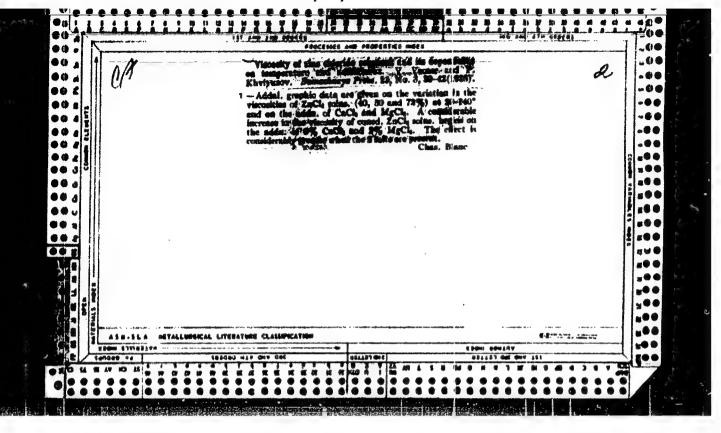
VERNER, V., starshiy inzh.; YUSUPOV, M., starshiy instruktor

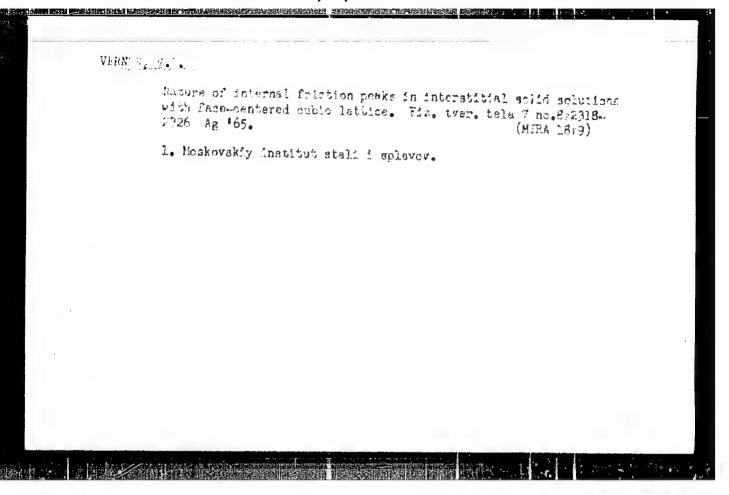
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Precast slabs of tiles for walls and floors. Sel. stroi. 15 no.4: 16-17 Ap '61. (MIRA 14:6)

1. Byuro tekhnicheskoy pomoshchi upravleniya stroitel'stva Ministerstva sovkhozov RSFSR. (Tile construction)







L 4545-66 ENT(m)/ENP(w)/EPF(c)/EPF(n)-2/T/ENP(t)/ENF(z)/ENP(b)/ENA(c) LJP(c) ACCESSION NR: AP5019842 JD/EN/JG/GG UR/0181/65/007/008/2318/2326

AUTHOR: Verner, V. D.

TITLE: On the nature of the peak internal friction in interstitial solid solutions with face-centered cubic lattice

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1955, 2318-2326

TOPIC TAGS: nickel alloy, manganese alloy, chromium alloy, cobalt alloy, internal friction, metal diffusion, solid solution, radiation

ABSTRACT: The author investigated the internal friction of alloys of nickel; manganese; chromium; carbon; nitrogen, and cobalt; with varying compositions. Wire samples 0.7 -- 0.8 mm in diameter were nitrided or carburized from the gas phase and quenched after homogenizing annealing in water. The internal friction was measured by a dependence of the diffusion peak on the concentration of the solid solution, on the number of radiation defects, and on the grain size

Card 1/2

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L 4545-66 ACCESSION NR: AP5019842

was investigated. An analysis of the experimental results shows that the nature of the relaxation mechanism which leads to an internal-friction peak in institial solid solutions with face-centered cubic lattice should be the same in alloys having different compositions. The relaxation is connected with the reorientation of the interstitial atom pairs located in 3-5 coordination spheres. A theoretical estimate yields for these spheres an energy of 0.4 -- 0.6 ev per pair of atoms. It is shown that the binding energy of the atom pairs can be determined from measurements of the internal friction. The experimental value of the binding energy was found to be 0.2 -- 0.3 ev, which was in agreement with the theoretical estimate. The author thanks A. G. Khachaturyan for help and a discussion of the results. Orig. art. has: 5 figures, 19 formulas, and 4 tables.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 04Deg64

ec64 ENCL:

SUB CODE: SS. MM

NR- REF -SOV: --- 005-

OTHER: 007

Card 2/2

S/181/61/003/011/018/056 B125/B104

AUTHORS: Verner, V. D., Finkel'shteyn, B. N., and Shalimova, A. V.

TITLE: Study of behavior of nitrogen in Fe alloys having facecentered lattice by using the method of internal friction

PERIODICAL: Fizika tverdogo tela, v.3, no. 11, 1961, 3363-3366

THE TWO STATES OF THE PROPERTY PROPERTY SERVICES IN THE PROPERTY PROPERTY IN THE PROPERTY OF T

TEXT: The authors investigated the internal friction of Fe + 30% Ni, Fe + 20% Ni + 9% Mn, Fe + 28% Mn alloys and of electrolytic iron as a function of temperature. Wire-type samples of 0.7 mm diameter were annealed before testing in moisture-laden bydrogen in order to remove carbon and nitrogen. K. M. Rozin and B. N. Finkel'shteyn (DAN SSSR, 91, no. 4, 811, 1953) discovered a carbon peak of internal friction in type 25-20 austenite steel. Ke-Ting-sui, Wang Chi-men (Scientia Sinica, 4, 501, 1955) found similar peaks in nickel and alloys with face-centered lattices. The internal friction was measured as a function of temperature by employing a vacuum-type torsion pendulum of type PAC-MMC (RKF-MIS). The samples investigated were nitrided to a depth of 0.20 - 0.25 mm. After tempering from the nitriding temperature, the surface layer consists of Card 1/4

S/161/61/003/011/018/056 Study of behavior of nitrogen in Fe alloys...B125/E104

the nitride phase ($\mathcal E$ and $\mathcal Y^b$) and of solid nitrogen solutions in martensite, the rest consists of austenite and ferrite. The interior of the sample consists of ferrite. The peak a of internal friction (Figs. 1 and 2) is caused by nitrogen found in the ferrite. The peak c is caused by martensite. Alloys of iron with nickel and manganese after nitriding showed a layer with the structure of austenite with nitrides. The interior of samples consisted of pure austenite. The temperature dependence of internal friction showed a maximum at 260 - 280°C for all samples investigated. Raising the hardening temperature increases the peaks and

annealing lowers them. According to tests, these peaks are caused by solid solution of nitrogen. The activation energy of the relaxation process caused by the peak of internal friction was determined by shift of the maximum on the temperature axis at variable vibration frequency and also by the method of K. Vert (Sb. "Sovremennyye fizicheskiye metody issledovaniya v metallovedenii." Metallurgizdat, str. 265, M. 1958). Results agree within limits of error. The activation energy of iron agreed well with the activation energy for nitrogen diffusion in f-iron. The diffusion coefficient at peak temperature (523°K) was 0.928·10-15 cm2/sec,

S/181/61/003/011/018/056

Study of behavior of nitrogen in Fe alloys...B125/B104

at 950°C it is given as D = 1.26·10⁻⁸ cm²/sec. Peaks found by the authors are caused by diffusion of nitrogen atoms in face-centered lattices under the action of elastic stresses. There are 5 figures, 1 table, and 11 references: 7 Soviet-bloc and 4 non-Soviet-bloc. The three most recent references to English-language publications read as follows: J. L. Snoek. Physica, 8, 711, 1941.; C. Wert. Phys. Rev., 79, No. 4, 601, 1950.; J. D. Fast, M. V. Verripr. J. Iron and Steel Inst., 176, 24, 1954.

ASSOCIATION: Moskovskiy institut stali im. I. V. Stalina (Moscow Steel Institute imeni I. V. Stalin)

SUBMITTED: June 5, 1961

Fig. 1. Temperature dependence of internal friction of nitrided iron. After quenching from 700°C: (1) Heating, (3) cooling; after quenching from 700°C and cold treatment, (2) heating, (4) cooling; after a third quenching from 700°C; (5) heating.

Card 3/4

5/125/62/014/006/010/020 E193/E383

Verner, V.D. AUTHOR:

Internal friction due to diffusion of nitrogen atoms TITLE:

to the elastic-stresses field in the γ solid solution of

iron alloys

Fizika metallov i metallovedeniye, v. 14, no. 6, RERIODICAL: 1962, 880 - 889

The object of the present investigation was to explore the possibility of using internal-friction measurements for studying the diffusion of nitrogen in iron and iron alloys. chemical analysis of the experimental materials is given in Table 1. Specimens with various nitrogen contents were obtained from these materials by surface nitriding, followed by homogenizing annealing. Attempts were made to prevent losses of nitrogen during the latter treatment by using surface-diffusion barriers formed by oxidising nitrided steel specimens or by coating them with tin, nickel or glass. Although this expedient was fully effective in preventing losses of nitrogen, only in the case of alloys 5 and 6, coated with tin and homogenized at 700-750 Card 1/5